

**Amendments to the Drawings:**

See enclosed annotated sheets and replacement sheets for drawing page numbers 6, 7, 9, 11, 13, 19, 20 and 21.

## **REMARKS/ARGUMENTS**

Applicant thanks Examiner for the detailed Office Action dated November 23, 2005. In response to the issues raised, the Applicant offers the following submissions and amendments.

### **Amendments**

The Abstract has been extended to be in the range of 50 to 150 words.

The Detailed Description has been amended at pages 4, 7, 9, 13, 15, 22, 23, 24, 26 and 27 to address typographical errors and drawings reference numbering mistakes identified by the Examiner.

Claim 1 has been amended to incorporate the features defined by Claim 2 (now cancelled).

Accordingly, the amendments do not add any new matter.

### **Drawings**

Enclosed are replacement sheets for drawing page numbers 6, 7, 9, 11, 13, 19, 20 and 21. The new drawings sheets correct the errors in the reference numbering shown on the original drawings.

### **Specification**

The Abstract has been amended to a single paragraph on a separate sheet within the range of 50 to 150 words. The amended Abstract provides readers with a better indication as to whether the full text of the specification should be consulted.

As discussed above, the specification has been amended to correct the typographical errors and the drawing reference numeral mistakes identified by the Examiner. The Applicant thanks the Examiner for drawing these to our attention.

### **35 U.S.C. §103 - Claims 1 to 3**

Claims 1 to 3 stand rejected as obvious in light of US 5,572,245 to Cowger in view of US 4,371,881 to Bork et al. The Applicant disagrees.

Amended claim 1 defines the assembly auxiliary to the printhead as being capable of selectively blotting, capping or providing a platen for the printhead. Giving the auxiliary assembly a versatile functionality and incorporating it into the cartridge allows the cartridge to be very enclosed and unitary in nature. This minimizes the exposure of the delicate nozzle structures to any inadvertent contact that might damage the printhead IC. If the maintenance station were part of the cradle that the cartridge is installed into, the printhead IC would need to be exposed, at least temporarily, as the cartridge is installed.

Furthermore, as the auxiliary assembly provides the platen, the printing gap from the nozzles to the surface of the media can be closely controlled. If the platen is mounted in the printer body and the printhead cartridge is installed so that the printhead is in an operative position relative to the platen, the printing gap is prone to variation. It will be appreciated that this can have a detrimental effect on print quality.

Neither Cowger nor Bork describe a printer cartridge with auxiliary assembly that can blot, cap and be a platen for the printhead. Cowger teaches a printhead pen with a retractable shield while Bork has a shield that pivots between a wiper (which also caps the nozzle) and a printing window that lets the ejected ink reach the print media.

The combined disclosures of the cited references fail to teach all the elements of amended claim 1. Accordingly, claims 1 and 3 are not obvious in light of Cowger in view of Bork.

**35 U.S.C. §103 - Claims 4 to 6**

Claims 4 to 6 stand rejected as obvious in light of Cowger in view of Bork et al, in further view of US 6,318,920 to Silverbrook.

The '920 reference shows a maintenance station for an inkjet printhead that can blot, cap and provide a printing platen. However, this is permanently mounted within the printer and not part of the replaceable printer cartridge. To combine Cowger and Bork together with '920 to provide a cartridge with a reciprocating, multi-functional assembly that blots, caps and provides the printing platen requires substantial re-designing and changes to the basic principles of operation in both Cowger and Bork.

The Cowger and Bork cartridges would no longer be installed adjacent the paper path but into the paper path – the platen becoming one of the guides defining the path of the paper. Likewise, Cowger and Bork do not provide the ordinary worker with the teachings to modify the '920 print engine into a removable cartridge. As a cartridge, the '920 print engine would need interfaces for receiving power and data as well as the mechanical power necessary to operate a reciprocating and rotating auxiliary assembly.

We submit that the ordinary worker would not be motivated to derive the invention defined by any of claims 4 to 6 from a combination of Cowger, Bork and '920, as there would be no reasonable expectation of successfully altering the basic operation of each device. Accordingly, claims 4 to 6 are not obvious in light of the cited references.


It is respectfully submitted that the Examiner's rejections have been successfully traversed and the application is now in condition for allowance. Accordingly, favorable reconsideration is courteously solicited.

Very respectfully,  
Applicant:



---

KIA SILVERBROOK



---

GARRY RAYMOND JACKSON

C/o: Silverbrook Research Pty Ltd  
393 Darling Street  
Balmain NSW 2041, Australia

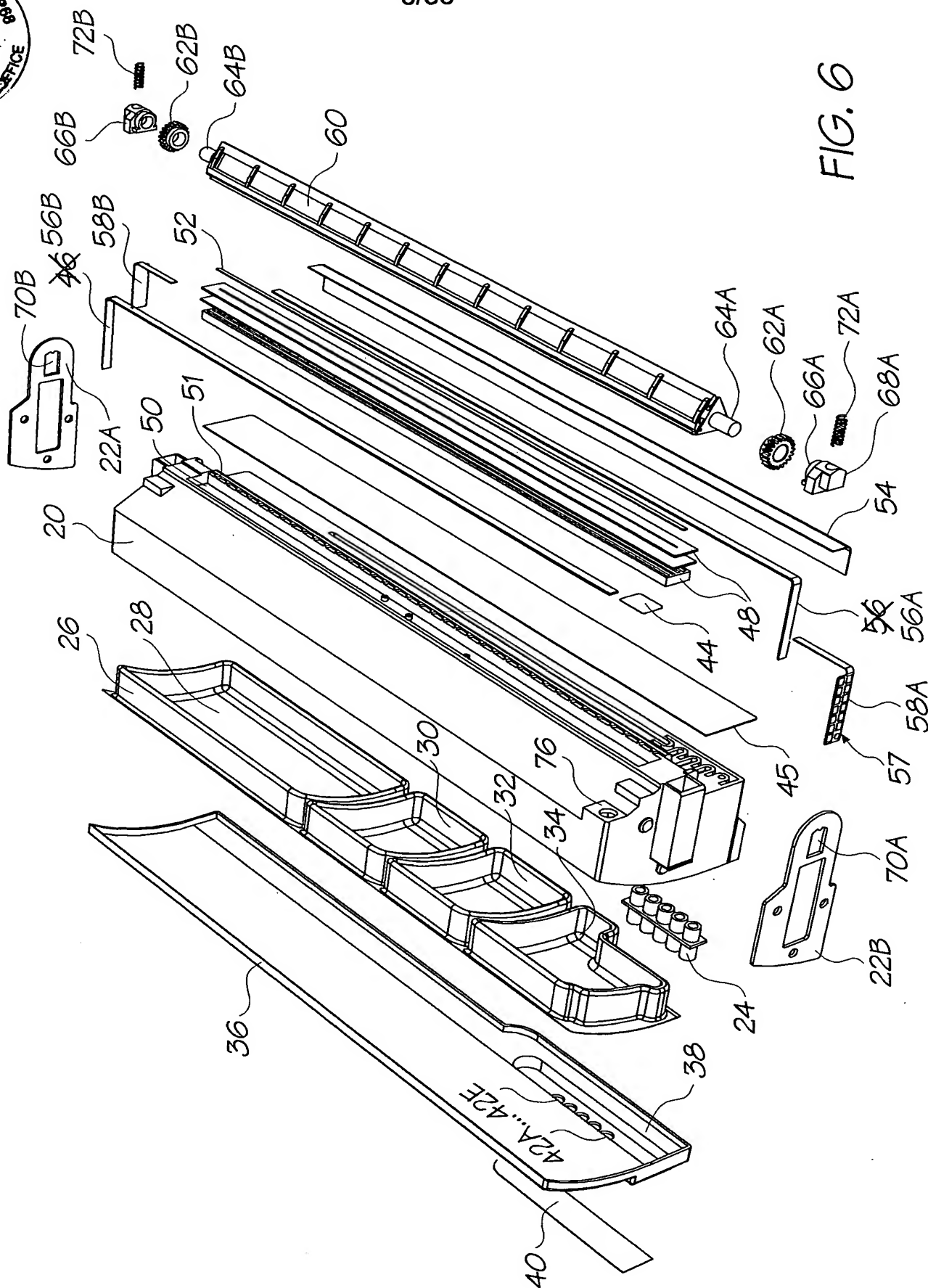
Email: [kia.silverbrook@silverbrookresearch.com](mailto:kia.silverbrook@silverbrookresearch.com)

Telephone: +612 9818 6633

Facsimile: +61 2 9555 7762

6/36

FIG. 6



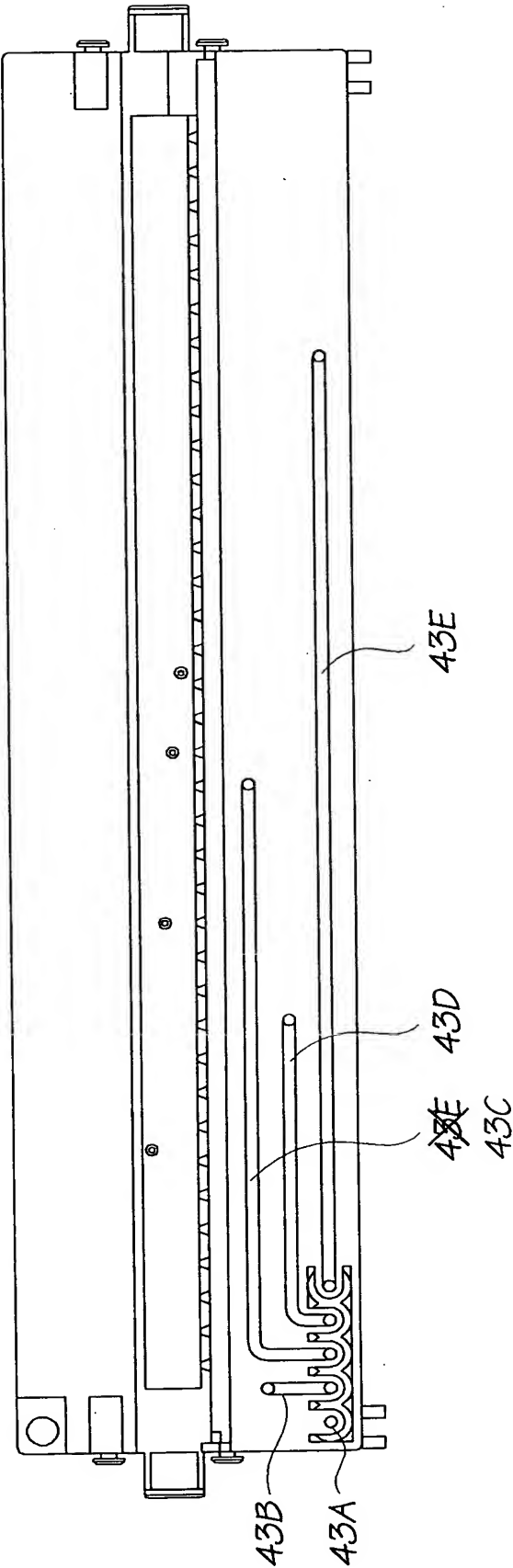


FIG. 7

9/36



11/36

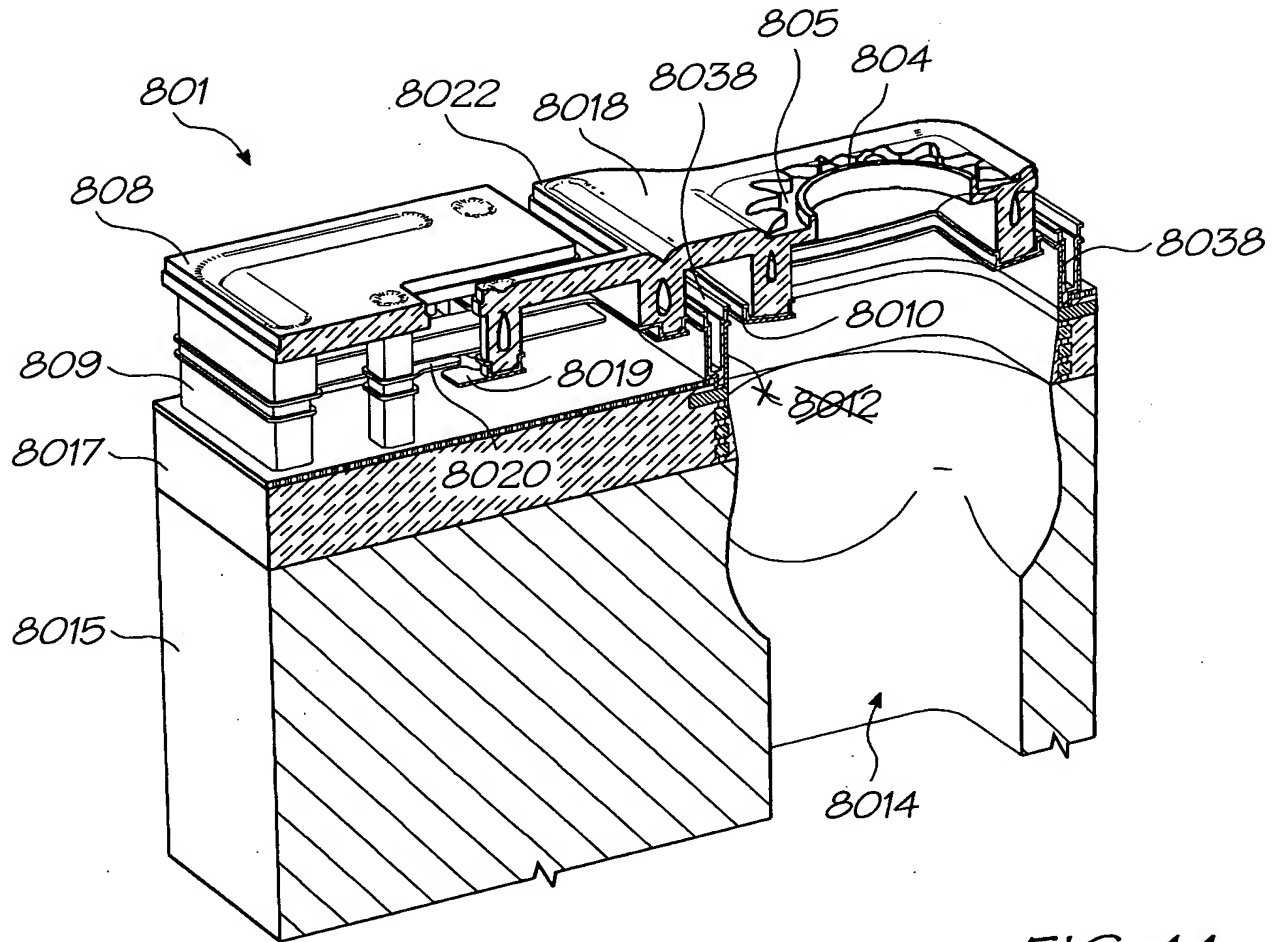


FIG. 14

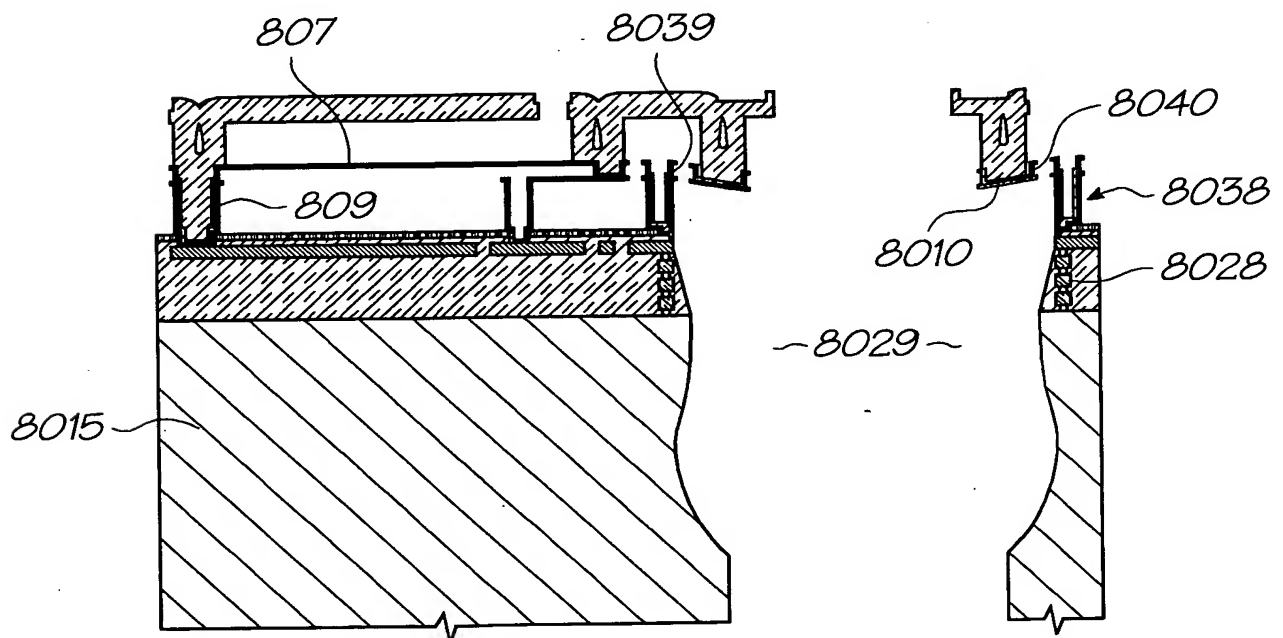


FIG. 15

13/36

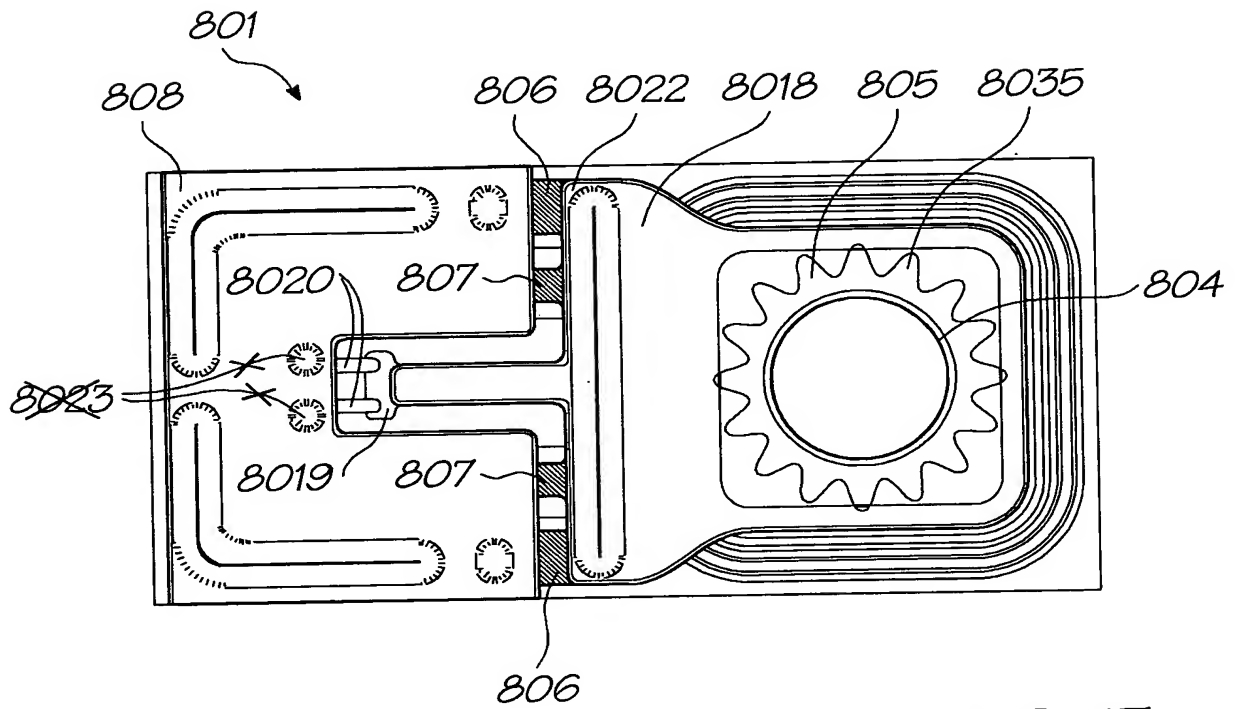


FIG. 17

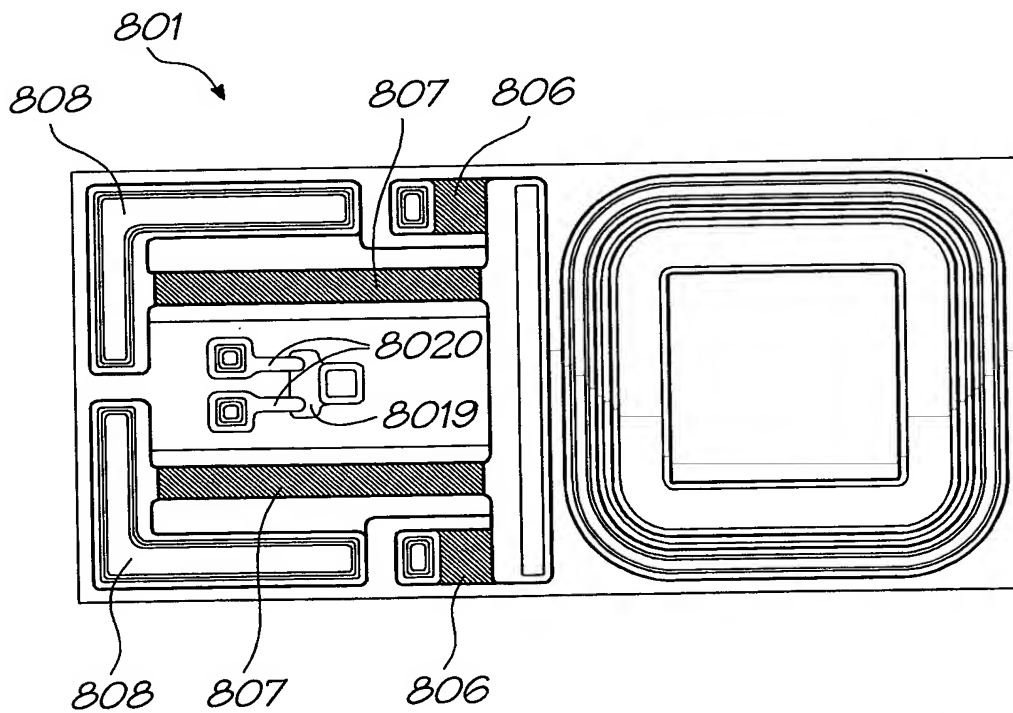


FIG. 18



19/36

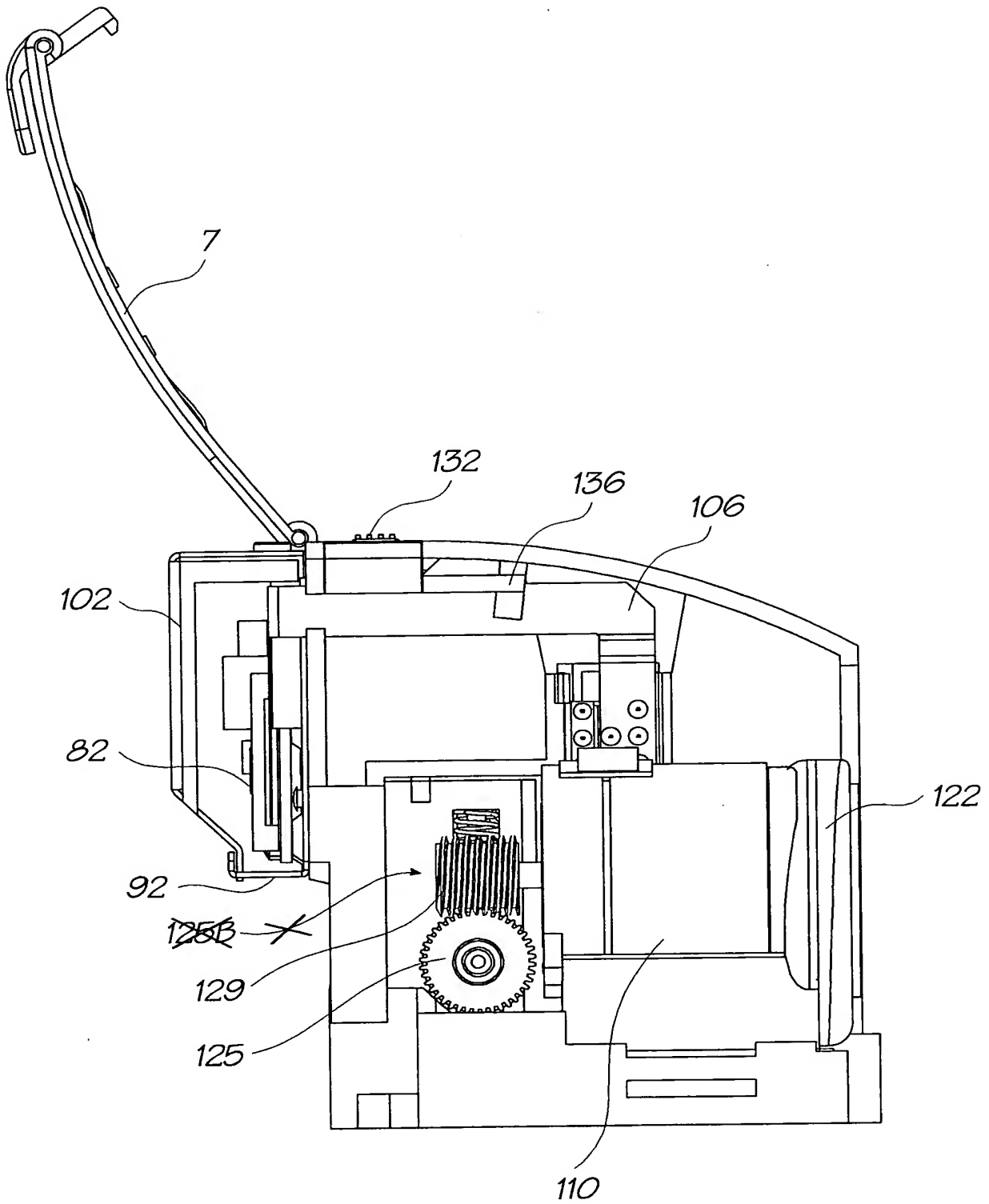
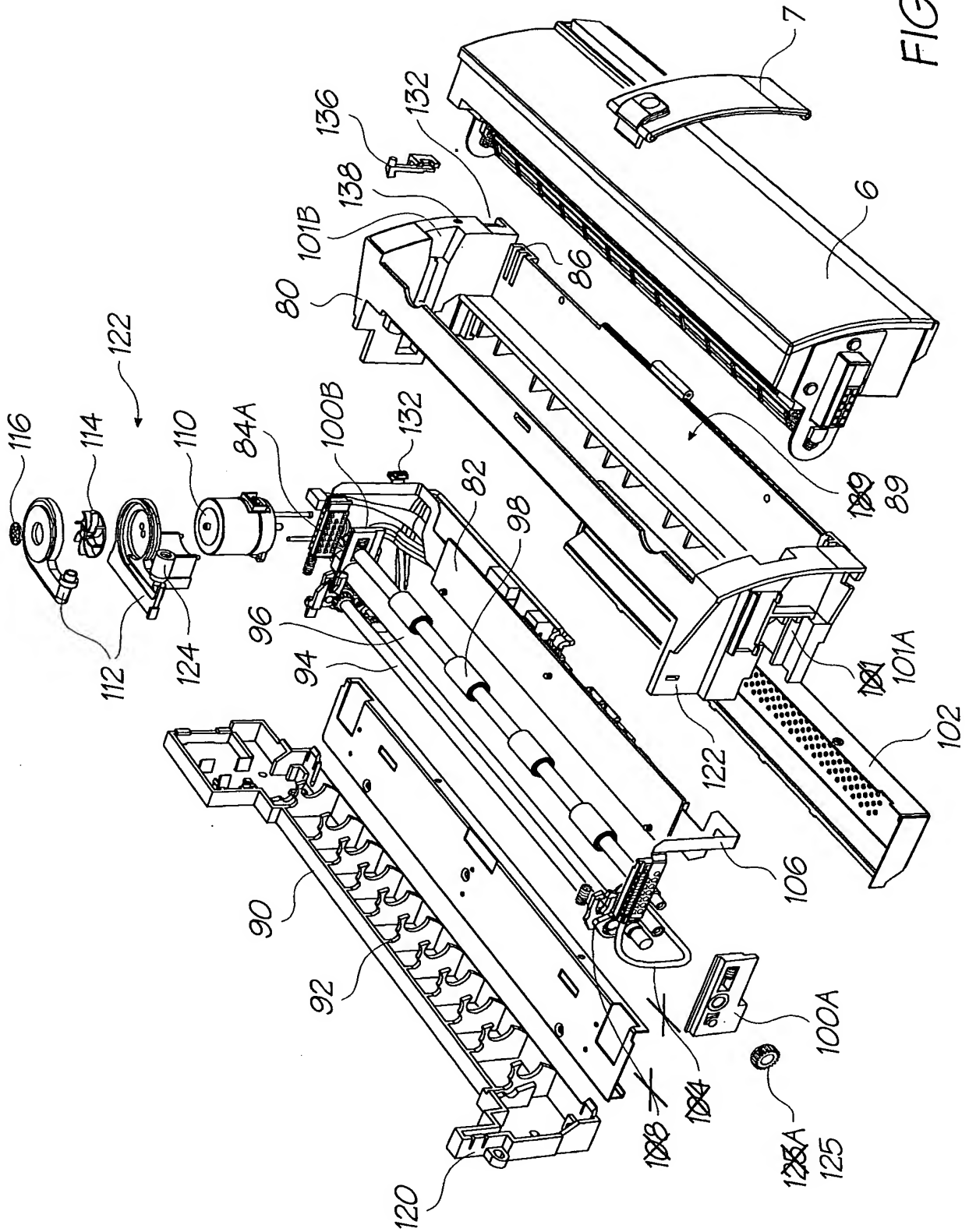


FIG. 25

20/36

FIG. 26



21/36

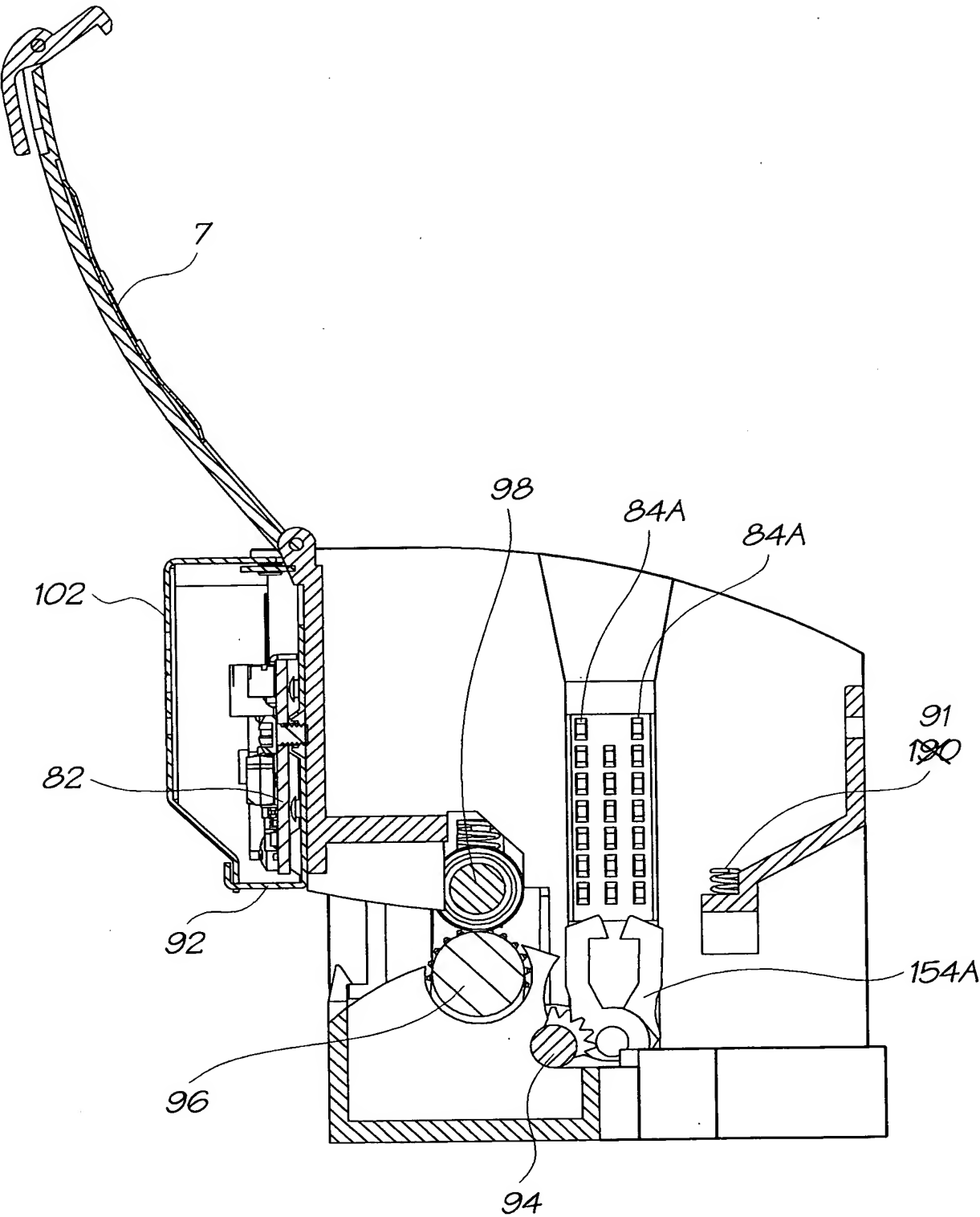


FIG. 27

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☒ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**